



PROJECT REPORT

# **Application System Of Student's Scheduling Subject Using Gammu SMS Gateway**

Yudhi Priombodo

04.02.0051

2012

**FAKULTAS ILMU KOMPUTER**

**UNIVERSITAS KATOLIK SOEGIJAPRANATA**

Jl. Pawiyatan Luhur IV/1, Bendan Duwur SEMARANG 50234

TELP. 024-8441555 (hunting) Web: <http://www.unika.ac.id>

Email: [ikom@unika.ac.id](mailto:ikom@unika.ac.id)

# **APPROVAL and RATIFICATION PAGE**

## **PROJECT REPORT**

### **Application System Of Student's Scheduling Subject Using Gammu SMS Gateway**

This project report already approved and ratified by Dean of Faculty Computer Science and Supervisor on January 16<sup>th</sup>, 2012.

With the approval,

Examiners,

Examiners,

Suyanto EA, Ir., M.Sc

NPP : 058.1.1992.116

Robertus Setiawan Aji Nugroho, ST., McompIT

NPP : 058.1.2007.273

Supervisor,

Dean of Faculty of Computer Science,

Hironimus Marlon Leong, S.Kom, M.Kom

NPP : 058.1.2007.273

Hironimus Marlon Leong, S.Kom, M.Kom

NPP : 058.1.2007.273

## STATEMENT of ORIGINALITY

Here by signed:

Name : Yudhi Priombodo

NIM : 04.02.0051

Here by certify that this project was made by myself and not copy or plagiarizes from other people, except that in writing expressed to the other article.

If it is proven that this project was plagiarizes or copy the other, I'm ready to accept a sanction.

Semarang, January 14th, 2012

Yudhi Priombodo

04.02.0051

## FOREWORD

Thanks a lot of God because it has been able to be completed my final project, with title : Application System Of Student's Scheduling Subject Using Gammu SMS Gateway. And in this opportunity, I would like to thanks :

- My Lord, Jesus Christ that give me power to finish this project.
- Mr. Hironimus Marlon Leong, S.Kom, M.Kom as Dean of Faculty Computer Science Unika Soegijapranata
- Mr. Suyanto EA, Ir, M.Sc as the supervisor who has spent his time and advise meduring the making of the final project.
- My parents and my big family for their support and pray.
- GMS Semarang my lovely Church and SFC my community,Darstreet.
- All my friends which help and support me to finish this project.

Finally, I would like to apologize if the project is still many shortcomings. I look forward to suggestions and criticism.

Semarang, January 14th, 2012

Yudhi Priombodo

04.02.0051

## ABSTRACT

*The development of technology there are still many deficiency, especially in the field of communication tools, such as receiving text messages and send replies directly is very time-consuming considerable, Moreover, sms replies sent to have the same format and sms reply will be sent with what the sender wants.*

*GAMMU, sms gateway software. Gammu is Open Source Software that serves to set and manipulate SMS data entry or exit. Gammu itself already known, then operate it with ease in a lot of users and enthusiasts who use the gammu sms gateway as the main software. Besides easy to use, many devices that support modem and gsm modem / mobile phone quite a lot of support. Gammu can even be combined with a database, and it is more helpful in storing data and simplify work processes. The Database is MySQL support on GAMMU.*

*Within this application using gammu. This application will send sms automatically. Gammu along with phpmyadmin and mysql in use in this application process. These applications facilitate students in their subject access schedule. Students just send the request via sms handpone, with student identification numbers. gammu will process through a modem device and give the results.*

## Table of Content

Approval and Ratification Page.....	i
Statement of Originality.....	ii
Foreword.....	iii
Abstract.....	iv
Table of Content.....	v
Table of Figure.....	vii
Table of Table.....	viii
Chapter I Introduction	
1.1. Background.....	1
1.2. Scope.....	2
1.3. Objectives.....	2
Chapter II Literature Study	
2.1. Database.....	3
Chapter III Planning	
3.1. Research Methodologies.....	5
3.2. Project Management.....	5
Chapter IV Analysis and Design	
4.1. Install Fedora 9 .....	6
4.2. Install Gammu.....	17
4.3 Port Settings .....	26
Chapter V Implementation and Testing	
5.1. Implementation and Testing.....	33
5.2 Testing.....	33
5.3 Listing program sms gateway.....	38
5.4 Autorespons to subject schedule result .....	48
Chapter VI Conclusion	
6.1. Conclusion.....	53
6.2. Further research.....	53

References.....	54
-----------------	----



## Table of Figure

Figure 4.1	: Install Fedora 9.....	6
Figure 4.2	: Select skip.....	7
Figure 4.3	: Language English select next.....	7
Figure 4.4	: Keyboard system US.English, select next.....	8
Figure 4.5	: Select yes and then next.....	8
Figure 4.6	: Network devices select next.....	9
Figure 4.7	: Select time zone and next.....	9
Figure 4.8	: Enter password of root and then select yes and next.....	10
Figure 4.9	: Select create custom layout and then next.....	10
Figure 4.10	: Add partition.....	11
Figure 4.11	: Add partition file system type.....	11
Figure 4.13	: Partition hardisk.....	12
Figure 4.14	: Partition hardisk data.....	12
Figure 4.15	: Default installation.....	13
Figure 4.16	: Install boot loader.....	13
Figure 4.17	: Preparing for installation .....	14
Figure 4.18	: Process installation fedora.....	14
Figure 4.19	: Installation success and next reboot .....	15
Figure 4.20	: Welcome Fedora .....	15
Figure 4.21	: View login .....	16
Figure 4.22	: Install httpd .....	17
Figure 4.23	: Install mysql-server .....	17
Figure 4.24	: Install mysql .....	18
Figure 4.25	: Install mysql-devel .....	18
Figure 4.26	: Install php .....	19
Figure 4.27	: Install phpmyadmin.....	19
Figure 4.28	: Extract cmake .....	20
Figure 4.29	: Configure cmake .....	21
Figure 4.30	: gmake .....	21



Figure 4.31	: make install cmake.....	22
Figure 4.32	: Check cmake .....	22
Figure 4.33	: Extract gammu .....	23
Figure 4.34	: Configure gammu .....	24
Figure 4.35	: Make install gammu .....	24
Figure 4.36	: Check gammu .....	25
Figure 4.37	: Series modem.....	26
Figure 4.38	: Test sms in terminal.....	27
Figure 4.39	: Service httpd and mysqld.....	29
Figure 4.40	: View PhpMyAdmin.....	30
Figure 4.41	: Create database.....	30
Figure 4.42	: Send message.....	31
Figure 4.43	: Create table matakuliah.....	31
Figure 4.44	: Sent item.....	32
Figure 5.1	: index.php.....	33
Figure 5.2	: Outbox.php.....	34
Figure 5.3	: Viewsent.php.....	35
Figure 5.4	: Inbox.php.....	36
Figure 5.5	: Autorespons sms.....	37
Figure 5.6	: Proses.php.....	38
Figure 5.7	: Listing program index.php.....	39
Figure 5.8	: Listing program insert.php.....	40
Figure 5.9	: Listing program outbox.php.....	40
Figure 5.10	: Listing program viewsent.php.....	45
Figure 5.11	: Listing program connect.php.....	46
Figure 5.12	: Listing program delete.php.....	47
Figure 5.13	: Listing program autorespons.....	48
Figure 5.14	: Listing program simpan.php.....	49
Figure 5.15	: Listing program proses.php.....	50
Figure 5.16	: Listing program delete.php.....	52

## Table of Table

Table 3.1	: Project Management .....	4
-----------	----------------------------	---

